Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force

R-1 ITEM NOMENCLATURE

DATE: February 2011

3600: Research, Development, Test & Evaluation, Air Force

APPROPRIATION/BUDGET ACTIVITY

PE 0603851F: ICBM - DEM/VAL

BA 4: Advanced Component Development & Prototypes (ACD&P)

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	67.811	66.745	67.202	-	67.202	67.838	69.008	70.037	71.005	Continuing	Continuing
641020: ICBM Guidance Applications	16.387	15.154	14.303	-	14.303	14.495	14.713	14.933	15.197	Continuing	Continuing
641021: ICBM Propulsion Applications	43.097	43.260	44.574	-	44.574	44.859	45.688	46.366	46.917	Continuing	Continuing
641022: ICBM Reentry Vehicle Applications	5.471	5.538	5.738	-	5.738	5.899	5.986	6.077	6.184	Continuing	Continuing
641023: Rocket System Launch Program	0.026	0.024	0.025	-	0.025	0.025	0.026	0.026	0.026	Continuing	Continuing
644209: Long Range Planning (LRP)	2.830	2.769	2.562	-	2.562	2.560	2.595	2.635	2.681	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program ensures a responsive design and development engineering infrastructure to address emerging issues and technology insertion within the current Intercontinental Ballistic Missile (ICBM), future strategic capability and other common strategic mission areas, where appropriate, to develop enhanced multi-use capabilities. Efforts identify methods to reduce life cycle costs, improve nuclear safety and surety, and ensure strategic missile viability. Demonstration and validation projects include guidance applications, propulsion applications, reentry vehicles, assessment of current and future propulsion systems, development of enhanced command/control capabilities, and long range planning efforts.

BA4 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

Air Force Page 1 of 31 R-1 Line Item #39

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force **DATE:** February 2011 R-1 ITEM NOMENCLATURE

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

PE 0603851F: ICBM - DEM/VAL

BA 4: Advanced Component Development & Prototypes (ACD&P)

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	68.097	66.745	67.976	-	67.976
Current President's Budget	67.811	66.745	67.202	-	67.202
Total Adjustments	-0.286	-	-0.774	-	-0.774
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	-			
Congressional Adds		-			
 Congressional Directed Transfers 		-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
Other Adjustments	-0.286	-	-0.774	-	-0.774

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 641021: ICBM Propulsion Applications

Congressional Add: Advanced Third Stage Domestic Fiber Motor Case Development

Congressional Add Subtotals for Project: 64102

Congressional Add Totals for all Projects

	FY 2010	FY 2011
	2.400	-
21	2.400	-
ts	2.400	-

Change Summary Explanation

No Significant Changes

DATE: February 2011

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APPROPRIATION/BUDGET ACTIV		R-1 ITEM N	IOMENCLAT	TURE		PROJECT					
3600: Research, Development, Test	PE 060385	1F: <i>ICBM - E</i>	DEM/VAL		641020: ICBM Guidance Applications						
BA 4: Advanced Component Development & Prototypes (ACD&P)											
COST (\$ in Millions)			FY 2012	FY 2012	FY 2012					Cost To	
COST (\$ in Millions)	Base	oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost		
641020: ICBM Guidance	16.387	15.154	14.303	-	14.303	14.495	14.713	14.933	15.197	Continuing	Continuing

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A. Mission Description and Budget Item Justification

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Applications

Quantity of RDT&E Articles

Fxhibit R-2A RDT&F Project Justification: PB 2012 Air Force

The Guidance Applications Program ensures the development of strategic capability in response to the Nuclear Posture Review, recommendations of the United States Strategic Command (USSTRATCOM) Strategic Advisory Group, USSTRATCOM Commander guidance, and the Defense Science Board Task Force on Nuclear Deterrence. Efforts are focused on current and future requirements and technologies, reduced life cycle costs, and increased nuclear surety and safety. Activities leverage the efforts of the Science and Technology community and are coordinated with the Navy strategic application program to enhance synergy and avoid duplication. Key elements include developing responsive technologies with common applications for future strategic guidance capabilities.

BA4 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	oco	Total
Title: Guidance Applications	16.387	15.154	14.303	-	14.303
Description: Develop, in coordination with the Navy, advanced solid-state guidance technology with higher reliability.					
FY 2010 Accomplishments: Continued to develop, prototype, and test solid-state instrument technologies (accelerometers and gyros). Continued to develop, analyze, evaluate, prototype, and test advanced solid-state inertial measurement unit concepts. Continued assessment, development, and implementation of test options to demonstrate future system concepts. Finished build and test of Advanced Inertial Measurement Unit (AIMU) engineering model 1 and design engineering model 2 which will incorporate the solid state strategic gyro and accelerometer.					
FY 2011 Plans: Continue to develop, prototype, and test solid-state instrument technologies (accelerometers and gyros). Continue to develop, analyze, evaluate, prototype, and test advanced solid-state inertial measurement unit concepts. Continue assessment, evaluation, and test of radiation hard electronics for strategic guidance applications. Conduct experiments to demonstrate future strategic system concepts. Conduct assessment,					

Air Force Page 3 of 31 R-1 Line Item #39

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0603851F: <i>ICBM - DEM/VAL</i>	641020: <i>IC</i>	BM Guidance Applications
BA 4: Advanced Component Development & Prototypes (ACD&P)			

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
development, and implementation of test options to demonstrate future system concepts. Complete model 2 AIMU prototype and evaluate performance.					
FY 2012 Base Plans: Continue to develop, prototype, and test solid-state instrument technologies (accelerometers and gyros). Continue to develop, analyze, evaluate, prototype, and test advanced solid-state inertial measurement unit concepts. Continue assessment, evaluation, and test of radiation hard electronics for strategic guidance applications. Continue to conduct experiments to demonstrate future strategic system concepts. Conduct assessment, development, and implementation of test options to demonstrate future system concepts. Complete AIMU prototype design and build and conduct sled test and flight test planning.					
FY 2012 OCO Plans:					
Accomplishments/Planned Programs Subtotals	16.387	15.154	14.303	-	14.303

C. Other Program Funding Summary (\$ in Millions)

			FY 2012	FY 2012	FY 2012		Cost To				
Line Item	FY 2010	FY 2011	Base	<u>000</u>	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
Activity Not Provided: None.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

Accomplish studies, analyses, and limited engineering/pre-prototype hardware development; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive cost plus contracts.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Air Force Page 4 of 31 R-1 Line Item #39

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603851F: ICBM - DEM/VAL

PROJECT

641020: ICBM Guidance Applications

DATE: February 2011

Product Development (\$ in Millio	ns)		FY 2011		FY 2 Ba	2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Develop, analyze, evaluate, prototype and test instrument technologies and Inertial Measurement Unit (IMU) concepts	Various	AFRL, Honeywell, Orbital Sciences:**SEE REMARKS,	81.796	13.344	Nov 2010	12.549	Nov 2011	-		12.549	Continuing	Continuing	TBD
Assess, evaluate and test of radiation hard electronics	Various	Navy Crane, Institute for Space and Defense Electronics:Vanderbilt U.,	1.000	0.500	Nov 2010	0.500	Nov 2011	-		0.500	Continuing	Continuing	TBD
		Subtotal	82.796	13.844		13.049		-		13.049			

Remarks

**AFRL, Kirtland AFB NM; Honeywell, Redmond WA, Clearwater FL, Phoenix AZ; Orbital Sciences, Chandler AZ

Support (\$ in Millions)			FY 2	2011	FY 2 Ba	-	FY 2	-	FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Other Program Support	Various	AFNWC:**SEE REMARKS,	7.149	1.060	Nov 2010	1.004	Nov 2011	-		1.004	Continuing	Continuing	TBD
		Subtotal	7.149	1.060		1.004		-		1.004			

Remarks

**AFNWC/NWC, Kirtland AFB, NM

Test and Evaluation (\$ i	Test and Evaluation (\$ in Millions)			FY 2011			2012 ise		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test	Various	AFRL; Honeywell:**SEE REMARKS,	1.000	0.250	Nov 2010	0.250	Nov 2011	-		0.250	Continuing	Continuing	TBD
		Subtotal	1.000	0.250		0.250		-		0.250			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603851F: ICBM - DEM/VAL

PROJECT

641020: ICBM Guidance Applications

DATE: February 2011

Test and Evaluation (\$ i	n Millions)		FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract

Remarks

**AFRL, Kirtland AFB NM; Honeywell, Redmond WA, Clearwater FL, Phoenix AZ

Management Services	anagement Services (\$ in Millions)						FY 2012 Base		FY 2012 OCO				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-	0.000	0.000	0.000
Total Prior Years Cost		FY	2011		2012 ase		2012 CO	FY 2012 Total	Cost To	Total Cost	Target Value of Contract		
		Project Cost Totals	90.945	15.154	l l	14.303	3	-		14.303			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force												
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603851F: ICBM - DEM/VAL	PROJECT 641020: ICBM Guidance Applications										

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Air Force Page 7 of 31 R-1 Line Item #39

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0603851F: ICBM - DEM/VAL 641020: ICBM Guidance Applications

BA 4: Advanced Component Development & Prototypes (ACD&P)

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
IMU Test Hardware Deliveries	3	2010	4	2011	
IMU Tests	2	2011	1	2013	
IMU Design Reviews	4	2010	4	2013	
Gyro/Accelerometer Prototype build	4	2010	4	2010	
Gyro/Accelerometer Design Reviews	1	2010	3	2011	
Gyro/Accelerometer Tests	2	2010	4	2012	
Rad-Hard Electronics Testing	2	2010	3	2015	
Flight/Sled Tests	3	2012	4	2014	

DATE: February 2011

APPROPRIATION/BUDGET ACTIV 3600: Research, Development, Test BA 4: Advanced Component Develo	t & Evaluatio				I OMENCLA 1 1F: <i>ICBM - D</i>			PROJECT 641021: ICBM Propulsion Applications					
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost		
641021: ICBM Propulsion Applications	43.097	43.260	44.574	-	44.574	44.859	45.688	46.366	46.917	Continuing	Continuing		
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0				

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

The Intercontinental Ballistic Missile (ICBM) Propulsion Application Program develops strategic propulsion capability through projects exploring improvements and/ or alternatives to current propulsion systems, conducting studies assessing application of new technologies to meet future common propulsion system requirements, assessing opportunities for applying common materials and technology between the ICBM, submarine-launched ballistic missile (SLBM) propulsion systems, and other solid rocket motor propulsion capabilities to demonstrate a potential family of motors capability.

BA4 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	OCO	Total
Title: Propulsion Application Program	40.697	43.260	44.574	-	44.574
Description: Assess, develop, evaluate, and demonstrate common solid propulsion technology and manufacturing leading to a static fire test launch. Develop strategic propulsion capability and explore improvements to current systems. Supports the research and development industrial base and critical infrastructure					
FY 2010 Accomplishments: Supported the Solid Rocket Motor (SRM) research and development industrial base and critical infrastructure. Continued assessment and demonstration of ordnance and post-boost technology development. Continued Large Class Stage (LCS) motor development. Completed case build and wind for LCS hydro test. Completed hydro test on LCS motors. Began composite case design and build for advanced third stage motor.					
FY 2011 Plans: Support the SRM research and development industrial base and critical infrastructure. Continue assessment and demonstration of ordnance and post-boost technology development. Continue 92" LCS motor development. Continue intermediate design review for the 92" LCS motors. Continue static fire test preparation for 92" LCS motors.					
FY 2012 Base Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0603851F: ICBM - DEM/VAL	641021: ICBM Propulsion Applications
BA 4: Advanced Component Development & Prototypes (ACD&P)		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Support the SRM research and development industrial base and critical infrastructure. Continue assessment and demonstration of ordnance and post-boost technology development. Continue 92" LCS motor development. Complete intermediate design review for the 92" LCS motors.					
FY 2012 OCO Plans:					
Accomplishments/Planned Programs Subtotals	40.697	43.260	44.574	-	44.574
	FY 2010	FY 2011			
Congressional Add: Advanced Third Stage Domestic Fiber Motor Case Development	2.400	-			
FY 2010 Accomplishments: Minuteman III Advanced Third Stage Domestic Fiber Motor Case Development.					
FY 2011 Plans: Complete composite case build of the advanced third stage motor.					
Congressional Adds Subtotals	2.400	_			

C. Other Program Funding Summary (\$ in Millions)

			FY 2012	FY 2012	FY 2012					Cost To	
Line Item	FY 2010	FY 2011	Base	<u>000</u>	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
Activity Not Provided: None	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

Studies, analyses, and motor test firings will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive cost plus contracts.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Air Force Page 10 of 31 R-1 Line Item #39

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603851F: ICBM - DEM/VAL

PROJECT

641021: ICBM Propulsion Applications

DATE: February 2011

Product Development	(\$ in Millio	ns)		FY 2011		FY 2012 Base		FY 2	2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and evaluation of solid propulsion technologies	Various	AFRL; Aerojet, ATK Thiokol:*SEE REMARKS,	151.330	23.974	Nov 2010	26.594	Nov 2011	-		26.594	Continuing	Continuing	TBD
Systems Engineering	MIPR	SDTW:Kirtland AFB,	-	10.500	Jan 2011	11.500	Jan 2012	-		11.500	Continuing	Continuing	TBD
Assess and demonstrate ordnance and post-boost components	Various	AFRL, Aerojet, ATK Thiokol:*SEE REMARKS,	1.000	1.000	Jan 2011	1.000	Nov 2011	-		1.000	Continuing	Continuing	TBD
Evaluation of hazard classification methods	Various	AFRL, Aeorjet, ATK Thiokol:*SEE REMARKS,	1.000	1.000	Jan 2011	1.000	Nov 2011	-		1.000	Continuing	Continuing	TBD
		Subtotal	153.330	36.474		40.094		-		40.094			

Remarks

*AFRL, Edwards AFB CA; Aerojet, Sacremento CA; ATK Thiokol, Corrinne UT

Support (\$ in Millions)				FY 2	2011	FY 2 Ba		FY 2	2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Other Program Support	Various	AFNWC/NWC; AFRL:*SEE REMARKS,	12.415	1.786	Nov 2010	1.980	Nov 2011	-		1.980	Continuing	Continuing	TBD
		Subtotal	12.415	1.786		1.980		-		1.980			

Remarks

*AFNWC/NWC, Hill AFB CA; AFRL, Edwards AFB CA

Air Force Page 11 of 31 R-1 Line Item #39

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603851F: *ICBM - DEM/VAL*

PROJECT

641021: ICBM Propulsion Applications

DATE: February 2011

Test and Evaluation (\$ i	n Millions	5)		FY 2	2011		2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Static Fire	C/CPAF	AEDC:Edwards AFB, CA	0.531	5.000	Nov 2010	2.500	Nov 2011	-		2.500	Continuing	Continuing	TBD
		Subtotal	0.531	5.000		2.500		-		2.500			

Management Services	Management Services (\$ in Millions)						2012 ase		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-	0.000	0.000	0.000

	Total Prior									Target
	Years			FY 2012	FY:	2012	FY 2012	Cost To	[Value of
	Cost	FY 2	2011	Base	0	co	Total	Complete	Total Cost	Contract
Project Cost Totals	166.276	43.260		44.574	-		44.574			

Remarks

Air Force Page 12 of 31 R-1 Line Item #39

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603851F: ICBM - DEM/VAL	PROJECT 641021: ICBM Propulsion Applications
BR4. Advanced Component Development & Flototypes (ACD&F)		

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Air Force Page 13 of 31 R-1 Line Item #39

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603851F: ICBM - DEM/VAL

641021: ICBM Propulsion Applications

Schedule Details

	St	End		
Events	Quarter	Year	Quarter	Year
MCS static test fire	2	2010	4	2012
MCS Stage 3 composite case delivery	4	2011	1	2012
LCS motors case deliveries	1	2010	4	2013
LCS motors hydro test	2	2010	2	2011
LCS motors static test fires	2	2012	3	2013

DATE: February 2011

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APPROPRIATION/BUDGET ACTIV		R-1 ITEM N	OMENCLAT	TURE		PROJECT							
3600: Research, Development, Test	PE 060385	1F: <i>ICBM - E</i>	DEM/VAL		641022: ICBM Reentry Vehicle Applications								
BA 4: Advanced Component Develo													
FY 2012			FY 2012	FY 2012					Cost To				
COST (\$ in Millions) FY 2010 FY 2011 Base				oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost		
641022: ICBM Reentry Vehicle	5.471	5.538	5.738	-	5.738	5.899	5.986	6.077	6.184	Continuing	Continuing		

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A. Mission Description and Budget Item Justification

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Applications

Quantity of RDT&E Articles

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

The Intercontinental Ballistic Missile (ICBM) Reentry Vehicle (RV) Applications Program ensures the ICBM force is equipped with the safest and most reliable RVs and explores options for common, multi-mission capabilities. The program enables a responsive engineering infrastructure to support RVs beyond their original design life by addressing operational system issues and ensuring the availability of long-lead components/materials while identifying life cycle cost reduction methods. In addition, the program also develops and tests advanced RV technologies to meet future requirements. The program leverages investments by the Science & Technology community and Navy reentry systems applications program. Products are tested on a space available basis on Minuteman and Trident Force Development Evaluation (FDE) flights.

BA4 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	oco	Total
Title: Reentry Vehicle Applications	5.471	5.538	5.738	-	5.738
Description: Develop, evaluate, and test reentry vehicle materials and technologies for use in current and future strategic systems.					
FY 2010 Accomplishments: Continued carbon-carbon (C/C) thermal protection systems (TPS) material studies. Continued to validate reentry vehicle materials at NASA Ames. Conducted TPS testing of C/C silicon carbide at NASA Dryden. Evaluated alternate battery technology to increase service life, reduce costs, and increase reliability. Conducted material test vehicle flight data analysis.					
FY 2011 Plans: Continue development, evaluation, and testing of Reentry Vehicle materials and technologies. Continue Thermal Protection System and antenna window technology testing. Continue development of modeling and simulation tools and thermal testing of nosetip materials. Ground test reentry fuze battery technology.					
FY 2012 Base Plans:					

Air Force Page 15 of 31 R-1 Line Item #39

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0603851F: ICBM - DEM/VAL	641022: <i>IC</i>	BM Reentry Vehicle Applications
BA 4: Advanced Component Development & Prototypes (ACD&P)			

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Continue arcjet testing of thermal protection system materials. Complete thermal testing and analyze antenna window technologies. Continue nosetip material testing.					
FY 2012 OCO Plans:					
Accomplishments/Planned Programs Subtotals	5.471	5.538	5.738	-	5.738

C. Other Program Funding Summary (\$ in Millions)

			FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	Base	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
Activity Not Provided: None	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

Studies, analyses, limited engineering, and pre-prototype hardware development will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive cost plus contracts.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603851F: ICBM - DEM/VAL

PROJECT

641022: ICBM Reentry Vehicle Applications

DATE: February 2011

Product Development (\$ in Millio	ns)		FY 2	2011		2012 se	FY 2012 OCO					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Continue development, evaluation and testing of Reentry Vehicle materials and technologies	Various	*SEE REMARKS:**SEE REMARKS, CA	42.248	4.174	Nov 2010	4.338	Nov 2011	-		4.338	Continuing	Continuing	TBD
		Subtotal	42.248	4.174		4.338		-		4.338			

Remarks

^{**}Northrop Grumman, Clearfield UT, FMI. Biddeford ME, Boeing, Anaheim CA

Support (\$ in Millions)				FY 2	2011	FY 2 Ba	-		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support	Various	AFNWC/NWC:Hill AFB, UT	5.495	0.714	Nov 2010	0.750	Nov 2011	-		0.750	Continuing	Continuing	TBD
		Subtotal	5.495	0.714		0.750		-		0.750			

Test and Evaluation (\$	and Evaluation (\$ in Millions)				FY 2011		2012 ise	FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Materials	Reqn	AFRL Materials Lab:Wright-Patterson AFB, OH	1.550	0.400	Dec 2010	0.400	Dec 2011	-		0.400	Continuing	Continuing	TBD
Ground ARC Jet Testing	РО	Arnold Engineering & Development Center:Arnold AFB, TN	0.950	0.250	Dec 2010	0.250	Dec 2011	-		0.250	Continuing	Continuing	TBD
TPS Testing	MIPR	*SEE REMARKS:**SEE REMARKS,	3.381	-	Dec 2010	-		-		-	0.000	3.381	0.000
		Subtotal	5.881	0.650		0.650		-		0.650			

^{*}Northrup Grumman, FMI, Boeing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603851F: ICBM - DEM/VAL

PROJECT

641022: ICBM Reentry Vehicle Applications

DATE: February 2011

Test and Evaluation (\$ in M	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total						
	ntract		Total Prior								_		Target
	ethod Type	Performing Activity & Location	Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Value of Contract

Remarks

^{**}NASA Ames, Santa Clara CA; Dryen Flight Research Center, Edwards AFB CA

	Management Services (\$ in Millions)				FY	2011		2012 ise		2012 CO	FY 2012 Total				
	Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal -			-		-		-		-	0.000	0.000	0.000			
Total Prior Years Cost			FY	2011		2012 ase		2012 CO	FY 2012 Total	Cost To	Total Cost	Target Value of Contract			
			Project Cost Totals	53.624	5.538		5.738		-		5.738				

Remarks

Air Force Page 18 of 31 R-1 Line Item #39

^{*}NASA Ames; Dryen Flight Research Center

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force	DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603851F: ICBM - DEM/VAL	PROJECT 641022: ICBM Reentry Vehicle Applications

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Air Force Page 19 of 31 R-1 Line Item #39

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force **DATE:** February 2011 APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT 3600: Research, Development, Test & Evaluation, Air Force PE 0603851F: *ICBM - DEM/VAL*

BA 4: Advanced Component Development & Prototypes (ACD&P)

641022: ICBM Reentry Vehicle Applications

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
Reentry Vehicles Materials Arc Jet Testing	2	2010	4	2016
Reentry Vehicle Antenna Window tests	3	2011	3	2012
Development of Reentry Vehicle modeling and simulation	2	2010	3	2011
Nosetip Materials testing	3	2010	4	2016
Fuze Battery technology testing	2	2011	2	2012
Penetration Aid Alternative Design Study	1	2011	4	2012

DATE: February 2011

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	Exhibit K-ZA, KD rac r roject dast	7100						DATE: 1 Columny 2011				
				R-1 ITEM N	IOMENCLAT	TURE		PROJECT				
3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 060385	1F: <i>ICBM - D</i>	<i>EM/VAL</i>		641023: Rocket System Launch Program				
FY 2012			FY 2012	FY 2012					Cost To			
COST (\$ in Millions)		FY 2010	FY 2011	Base	oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
	641023: Rocket System Launch	0.026	0.024	0.025	-	0.025	0.025	0.026	0.026	0.026	Continuing	Continuing

A. Mission Description and Budget Item Justification

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Program

Quantity of RDT&E Articles

Exhibit R-24 RDT&F Project Justification: PR 2012 Air Force

The purpose of the ICBM Rocket System Launch Program (RSLP) is to perform studies and analyses that determine the most constructive and cost effective use of missile assets after they are deactivated or considered excess and added to the RSLP inventory.

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BA4 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	ОСО	Total
Title: Rocket System Launch Program	0.026	0.024	0.025	-	0.025
Description: Study and analyze the most constructive use of deactivated missile assets to be added to the RSLP inventory and the adoption of low cost front-end systems for use on deactivated missile assets.					
FY 2010 Accomplishments: Continue on-going studies for the adoption of low-cost front-end systems for use on deactiviated missile assets.					
FY 2011 Plans: Continue on-going studies for the adoption of low-cost front-end systems for use on deactiviated missile assets.					
FY 2012 Base Plans: Conduct RSLP studies and analyses.					
FY 2012 OCO Plans:					
Accomplishments/Planned Programs Subtotals	0.026	0.024	0.025	-	0.025

Air Force Page 21 of 31 R-1 Line Item #39

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603851F: ICBM - DEM/VAL 641023: Rocket System Launch Program

C. Other Program Funding Summary (\$ in Millions)

			<u>FY 2012</u>	<u>FY 2012</u>	<u>FY 2012</u>					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	Base	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
Activity Not Provided: None	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

Studies and analyses will be performed primarily in-house augmented with contractor support as required. Any special projects funded under this project that will require development and/or evaluation of hardware along with the associated employment concepts, will be awarded to qualified industry sources following open competition. Type of contract used (e.g., CPIF, FPIF, etc) will be that deemed most advantageous to the government, generally using cost plus contracts.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force DATE: February 2011 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 3600: Research, Development, Test & Evaluation, Air Force PE 0603851F: ICBM - DEM/VAL 641023: Rocket System Launch Program BA 4: Advanced Component Development & Prototypes (ACD&P) FY 2012 FY 2012 FY 2012 **Product Development (\$ in Millions)** oco **FY 2011** Base Total **Total Prior** Contract **Target** Method Performing Years Award Award Award Cost To Value of **Cost Category Item Activity & Location** Cost Date Cost Date Cost Date Complete **Total Cost** Contract & Type Cost Cost 0.000 0.000 0.000 Subtotal FY 2012 FY 2012 FY 2012 Support (\$ in Millions) FY 2011 Base oco Total **Total Prior** Target Contract Method Performing Years Award Award Award Cost To Value of **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract Space Development **Engineering Support** Various and Test Wing:Kirtland 3.756 0.024 Nov 2010 0.025 Nov 2011 0.025 Continuing Continuing TBD AFB. NM Subtotal 3.756 0.024 0.025 0.025 FY 2012 FY 2012 FY 2012 Test and Evaluation (\$ in Millions) FY 2011 oco Total Base Contract **Total Prior** Target Method Performing Years Award Award Award Cost To Value of Cost Date **Cost Category Item** & Type **Activity & Location** Cost Cost Date Date Cost Cost Complete **Total Cost** Contract Subtotal 0.000 0.000 0.000 FY 2012 FY 2012 FY 2012 Management Services (\$ in Millions) FY 2011 oco Base Total Contract **Total Prior** Target Method Performing Years Award Cost To Value of Award Award **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Complete **Total Cost** Contract Cost Subtotal 0.000 0.000 0.000 **Total Prior Target** FY 2012 FY 2012 FY 2012 Value of Years **Cost To** Cost **FY 2011** Base oco Total Complete **Total Cost** Contract **Project Cost Totals** 3 756 0.024 0.025 0.025 Remarks

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Air Force Page 23 of 31 R-1 Line Item #39

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force											
PPROPRIATION/BUDGET ACTIVITY 600: Research, Development, Test & Evaluation, Air Force A 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603851F: ICBM - DEM/VAL	PROJECT 641023: Rocket System Launch Program									

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Air Force Page 24 of 31 R-1 Line Item #39

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force **DATE:** February 2011 PROJECT

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

BA 4: Advanced Component Development & Prototypes (ACD&P)

3600: Research, Development, Test & Evaluation, Air Force

PE 0603851F: *ICBM - DEM/VAL* 641023: Rocket System Launch Program

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Annual Studies/Analyses	4	2010	4	2016	

DATE: February 2011

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					IOMENCLA	TURE	•	PROJECT				
				PE 060385	1F: <i>ICBM - E</i>	DEM/VAL		644209: Long Range Planning (LRP)				
BA 4: Advanced Component Development & Prototypes (ACD&P)												
OOOT (A to Milliana)			FY 2012	FY 2012	FY 2012					Cost To		
COST (\$ in Millions)	FY 2010	FY 2011	Base	oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost	
644209: Long Range Planning	2.830	2.769	2.562	_	2.562	2.560	2.595	2.635	2.681	Continuing	Continuing	
(LRP)												

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A. Mission Description and Budget Item Justification

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Quantity of RDT&E Articles

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

The Long Range Planning (LRP) task analyzes systems to identify common potential modifications of the Minuteman III required to meet user objectives relative to long term sustainment, technology insertion, employment, and force structure. The studies focus on system supportability, operability, reliability, and maintainability. Options/concepts generated by these studies are evaluated for feasibility, system impacts, and cost. The LRP also lays the groundwork for analysis supporting future weapon systems development and deployment. Pre-milestone activities may be conducted for current or future Intercontinental Ballistic Missile (ICBM) weapon systems to include entry criteria for milestone activities.

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BA4 - This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Long Range Planning	2.830	2.769	2.562	-	2.562
Description: Analyze and plan current and future ICBM modifications for long term sustainment, technology insertion, employment and force structure.					
FY 2010 Accomplishments: Completed range architecture, concrete, industrial base and modular mechanical ordnance destruct system (MMODS) studies.					
FY 2011 Plans: Continue support of the consolidated long range plan. Continue feasibility and life extension studies. Examine pre-milestone activities that may be conducted for current or future ICBM weapon systems.					
FY 2012 Base Plans: Continue support of the consolidated long range plan. Continue feasibility and life extension studies. Continue pre-milestone activities that may be conducted for current or future ICBM weapon systems.					
FY 2012 OCO Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P) PE 0603851F: ICBM - DEM/VAL

644209: Long Range Planning (LRP)

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	oco	Total
Accomplishments/Planned Programs Subtotals	2.830	2.769	2.562	-	2.562

C. Other Program Funding Summary (\$ in Millions)

			FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	Base	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
 Activity Not Provided: None 	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

Studies and analyses will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive cost plus contracts.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603851F: ICBM - DEM/VAL

PROJECT

644209: Long Range Planning (LRP)

DATE: February 2011

Cost To

0.000

Complete | Total Cost

0.000

Value of

Contract

0.000

Product Development (\$ in Millions)		FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Long Range Plan	SS/CPAF	Northrop Grumman:Clearfield, UT	6.080	0.170	Dec 2010	0.170	Dec 2011	-		0.170	Continuing	Continuing	TBD
Studies	Various	*SEE REMARKS:**SEE REMARKS,	39.480	1.892	Dec 2010	1.692	Dec 2011	-		1.692	Continuing	Continuing	TBD
		Subtotal	45.560	2.062		1.862		-		1.862			

Remarks

Method

& Type

Cost Category Item

Support (\$ in Millions))			FY 2	2011		2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Other program support	Various	AFNWC/ NWC:Clearfield, UT	5.495	0.707	Nov 2010	0.700	Nov 2011	-		0.700	Continuing	Continuing	TBD
	-	Subtotal	5.495	0.707		0.700		-		0.700			
Test and Evaluation (in Millions	5)		FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-	0.000	0.000	0.000
Management Services	s (\$ in Millio	ns)		FY 2	2011		2012 se		2012 CO	FY 2012 Total			
	Contract		Total Prior										Target

Cost

Award

Date

Award

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Award

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Cost

Years

Cost

Cost

Performing

Activity & Location

Subtotal

^{*}Northrop Grumman; The MITRE Corporation, Bedford MA; Various

^{**}Northrop Grumman, Clearfield UT; The MITRE Corp, Bedford MA

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0603851F: <i>ICBM - DEM/VAL</i>	644209: Loi	ng Range Planning (LRP)
BA 4: Advanced Component Development & Prototypes (ACD&P)			

Total	tal Prior									Target
Y	Years			FY 2012	FY:	2012	FY 2012	Cost To		Value of
	Cost	FY 2	2011	Base	0	co	Total	Complete	Total Cost	Contract
Project Cost Totals	51.055	2.769		2.562	-		2.562			

Remarks

Air Force Page 29 of 31 R-1 Line Item #39

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force	DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603851F: ICBM - DEM/VAL	PROJECT 644209: Long Range Planning (LRP)			

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Air Force Page 30 of 31 R-1 Line Item #39

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY R-

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE PROJECT

PE 0603851F: ICBM - DEM/VAL 644209: Long Range Planning (LRP)

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Long Range Planning studies	1	2010	4	2016	
Feasibility/life extension studies	1	2010	4	2016	
Conventional Strike Missile study	1	2010	4	2011	